

CLAIMS

1. An elastic fabric comprising a crosslinked polyolefin fiber, wherein the fabric has retractions both in warpwise and weftwise directions of the fabric of 8 % or 5 less after treated by dry heat at 65°C for 30 minutes.

2. An elastic fabric according to claim 1, wherein the mix rate of the crosslinked polyolefin fiber is 50 % or less.

3. An elastic fabric according to claim 1 or 2, 10 wherein said fabric is capable of stretching 5 % or more in the running direction of weaving or knitting of the crosslinked polyolefin fiber.

4. An elastic fabric according to any one of claims 1 to 3, wherein the crosslinked polyolefin fiber is 15 composed of a substantially linear polyolefin containing a branch, said polyolefin being treated with crosslinking.

5. A process for producing an elastic fabric, comprising:

retracting a fabric comprising a crosslinked 20 polyolefin fiber while dyeing the fabric, and then stretching or relaxing the fabric at a stretch ratio of 15 % or less to finish the fabric with heat-setting.

6. A process for producing an elastic fabric, comprising:

25 retracting a fabric comprising a crosslinked

polyolefin fiber while dyeing the fabric, without finishing the fabric with heat-setting before or after retracting.

7. A process for producing an elastic fabric according to claim 5, comprising:

5 retracting a fabric comprising a crosslinked polyolefin fiber while dyeing the fabric, and then subjecting the fabric to a process of heat treatment with relaxation for retracting the fabric, and subsequently finishing the fabric with heat-setting.

10 8. A process for producing an elastic fabric according to claim 6, comprising:

retracting a fabric comprising a crosslinked polyolefin fiber while dyeing the fabric, and then subjecting the fabric to a process of heat treatment
15 with relaxation for retracting the fabric.